ABSTRACT

This invention relates, in part, to methods of assessing sensitivity to a therapeutic agent in subjects with a disease. The invention also provides methods of detecting variant nucleic acid molecules and mutant proteins that correlate with treatment response. The invention in other aspects relates to kits and microarrays for assessing treatment sensitivity. The invention further provides novel variant nucleic acid molecules and the proteins they encode. The therapeutic agents include corticosteroids and beta-agonsists. Subjects suffering from a disease include those with COPD, asthma or depression.